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/A.L.L./

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): An X-ray diagnostic system comprising:

an X-ray source irradiating an X-ray;

an X-ray detector detecting the X-ray;

a support apparatus configured to support both the X-ray source and the X-ray detector so that both the X-ray source and the X-ray detector are opposed to each other with a space left therebetween, a tabletop on which an object to be examined is laid being located in the space, the object being subjected to injection of an X-ray contrast agent when the object is examined;

a fluoroscopic scan unit configured to relatively move one of the tabletop and the support apparatus with respect to the other and to perform a fluoroscopic scan along a direction predetermined with respect to the object with the one of the tabletop and the support apparatus relatively moved with respect to the other, the X-ray contrast agent flowing substantially along the direction, thereby a fluoroscopic image of the object being provided along the direction;

an imaging parameter setting unit configured to set, at every region to be examined of the object, imaging parameters required for an imaging scan on the basis of the fluoroscopic image, the regions being at least continuous without a gap along the direction determined with respect to the object, the imaging parameter setting unit comprising means for setting, as one of the imaging parameters, a relative moving speed of the one of the tabletop and the support apparatus with respect to the other depending on a speed of the X-ray contrast agent flowing in the object, including means for producing a difference image of two images of said object containing said X-ray contrast agent at two different positions in said object and